



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/10580

RECEIVED

AUG 17 2001

Technology Center 2100

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06F 17/30 US CL : 705/34, 30 According to International Patent Classification (IPC) or to both national classification and IPC																				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 705/34, 30, 3; 707/2, 7, 8 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)																				
C. DOCUMENTS CONSIDERED TO BE RELEVANT																				
Category*	Citation of documents, with indication, where appropriate, of the relevant passages	Relevant to claim No.																		
Y	US 5,603,025 A (TABB et al.) 11 February 1997, see entire document.	1-34																		
Y	US 5,995,946 A (AUZENNE et al.) 30 November 1999, see entire document.	1-34																		
A	US 5,884,284 A (PETERS et al.) 16 March 1999, see entire document.																			
A	US 6,047,268 A (BARTOLI et al.) 04 April 2000, see entire document.																			
A,P	US 6,067,525 A (JOHNSON et al.) 23 May 2000, see entire document.																			
A,P	US 6,052,671 A (CROOKS et al.) 18 April 2000, see entire document.																			
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																				
<table border="0"><tr><td>* "T"</td><td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td></tr><tr><td>* "A"</td><td>document defining the general state of the art which is not considered to be of particular relevance</td></tr><tr><td>* "U"</td><td>earlier document published on or after the international filing date</td></tr><tr><td>* "L"</td><td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td></tr><tr><td>* "O"</td><td>document referring to an oral disclosure, use, exhibition or other means</td></tr><tr><td>* "P"</td><td>document published prior to the international filing date but later than the priority date claimed</td></tr><tr><td>* "X"</td><td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td></tr><tr><td>* "Y"</td><td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td></tr><tr><td>* "A"</td><td>document member of the same patent family</td></tr></table>			* "T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	* "A"	document defining the general state of the art which is not considered to be of particular relevance	* "U"	earlier document published on or after the international filing date	* "L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	* "O"	document referring to an oral disclosure, use, exhibition or other means	* "P"	document published prior to the international filing date but later than the priority date claimed	* "X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	* "Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	* "A"	document member of the same patent family
* "T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention																			
* "A"	document defining the general state of the art which is not considered to be of particular relevance																			
* "U"	earlier document published on or after the international filing date																			
* "L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)																			
* "O"	document referring to an oral disclosure, use, exhibition or other means																			
* "P"	document published prior to the international filing date but later than the priority date claimed																			
* "X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone																			
* "Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art																			
* "A"	document member of the same patent family																			
Date of the actual completion of the international search 25 MAY 2001		Date of mailing of the international search report 18 JUN 2001																		
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 308-9051		Authorized officer <i>Passey Hanod</i> DEAN J. KRAMER Telephone No. (703) 308-2181																		

Form PCT/ISA/210 (second sheet) (July 1998) *

Examiner: EPdehuse Date: 10/13/2006